



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Dworshak Fisheries Complex

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MEMORANDUM

To: Fisheries Supervisor, Columbia Basin Ecoregion
Region 1, Portland, OR

From: Complex Manager
Dworshak Fisheries Complex

Subject: **Monthly Activity Report – June, 2009**

Fish Management Culture

Dworshak

Brood Year (BY08) 2008

At the end of the month there were approximately 1,154,764 BY08 SCS on station. These fish averaged 104 fish per pound (fpp) and 81 mm (3.2 inches) total length. Mortality for the month averaged 0.1 percent and raceway (RW) water temperature averaged 46.3°F.

On June 8, SCS were moved from seven circular tanks in RW 15 into RW 12 and four rectangular tanks from RWs 13-14 into RW 11.

COHO SALMON (COS)

Brood Year 2008

At the end of the month there were 360,710 COS averaging 45 fpp and 101 mm (4.0 inches) total length. Coho are in Burrows ponds (BP's) 51-53-55-57-59. Water temperature averaged 46.3°F for the month.

On June 25, there were 47,818 COS released from mixed-cell unit number 66 into the main stem of the Clearwater River. These fish were temporarily reared in the mixed cell unit to enable the staff to better understand the function of the mixed cell units and to facilitate the opportunity to conduct a preliminary evaluation of performance of small fish (e.g. 3 inch fish) in these experimental rearing units. These fish were excess to the 280,000 target number of COS to be reared at Dworshak. At time of release these fish were 36 fpp and 109 mm in length.

Mortality for the month was 3.9 percent. These fish were diagnosed with Cold-water disease and were treated with Florfenicol medicated feed. Gas Bubble disease was also found in the COS. Water temperature averaged 46.3°F in the BPs.

FALL CHINOOK SALMON

Brood Year 2008

As stated in the April Monthly Activity Report, the Idaho Fishery Resources Office (IFRO) is participating in two studies on fall Chinook salmon (FCS); 1) an evaluation of migrational behavior of Clearwater River fall Chinook salmon subyearlings and 2) an evaluation of the effect of transportation and summer spill in the Columbia River hydro system on smolt-to-adult return rates of Snake and Clearwater River Fall Chinook Salmon.

At the end of the month, there were 78,022 Snake River and 104,726 Clearwater River FCS (total 182,748) on station averaging 171 fpp and 68 mm (2.7 inches) total length.

From May 18 – June 1, there were releases made five days/week at Couse Creek on the Snake River. The total number of fish released by June 1 was 156,045 FCS. All fish were PIT tagged by BioMark Inc. of Boise, Idaho.

SUMMER STEELHEAD (SST)

Brood Year 2009

At the end of the month, approximately 1.38 million BY09 SST were on feed in the nursery. These fish averaged 145 fpp and 66 mm (2.6 inches) total length. Mortality for the month was 1.27 percent and water temperature averaged 54.3°F in the nursery.

During June, fingerlings from Takes 3-5 were moved from the nursery to outside BP's in System I and III. A total of 780,192 SST were transferred outside using a new fish-pump from PR-Aqua. The fish-pump eliminates the need for netting the fish and allows the SST to remain in the water during the entire operation. These SST averaged 79 fpp at the time of transfer.

System I had 266,405 BY09 SST averaging 76 fpp and 85 mm (3.4 inches) total length by the end of the month. These fish were moved from the nursery to System I on June 29. Water temperature averaged 47.9°F for the three days these fish were outside.

System III had 878,835 BY09 SST averaging 61.2 fpp and (3.6 inches) total length by the end of the month. A Chloramine-T bath was given to SST from Take 1 to treat lesions resulting from Cold-water disease. *Infectious Hematopoietic Necrosis Virus* (IHNV) has also been diagnosed in SST in Take I. Mortality was 7.2 percent and water temperature averaged 46.3°F for the month.

RAINBOW TROUT (RBT)

Brood Year 2008

On June 8, RBT from BP 62 and mixed-cell 64 were transported to Tunnel Pond for Kid's Fishing Day. There were an estimated 1,832 RBT transferred averaging 1.4 fpp and 305 mm (12 inches) total length.

On June 22, RBT were moved from mixed-cell pond 64 to BP62 so a fish-pump could be used to load the fish onto a truck. On June 23, there were an estimated 1,635 RBT transferred to Tulmucks Pond and an estimated 1,364 RBT transferred to Mudsprings Pond. These fish averaged 1.3 fpp and 311 mm (12.2 inches) total length.

Brood Year 2009

On June 2, there were 13,831 BY09 RBT transferred from circular tanks in the incubation room to BP 61. These fish were transferred with the PR Aqua fish-pump. At the end of the month there were 13,780 BY9 RBT in BP61 averaging 48 fpp and 95 mm (3.7 inches) total length. Mortality was 0.4 percent and water temperature in the tanks averaged 46.3°F during the month.

These fish will be utilized for the Kids Fishing Day in 2010.

SUMMARY

Table 2 Total Production—Fish on Station (04/30/09).

SP	BY	Location	Number	Wt (lbs)	FPP	L in	L mm
FCS	09	B-Bank RWs	182,748	1,071	171	2.7	68
SCS	08	A-Bank RWs	1,154,764	11,151	104	3.2	81
COS	08	BPs and MCU	360,710	7,974	45.2	4.0	101
SST	09	Nursery	1,358,474	9,345	145.4	2.7	69
SST	09	System I	266,405	3,507	76.0	3.4	85
SST	09	System III	878,835	14,371	61.2	3.6	91
RBT	09	BP 61	13,780	288	47.8	3.7	95
Total			4,215,716	47,707			

MCU = Mixed cell unit which were Burrows ponds 64 and 66 before renovation.

Kooskia

Kooskia Trap Operations BY09

The trap was open throughout June for BY09 Adult SCS collection. Results are summarized below.

Kooskia SCS Adult Trapping Summary BY 2009.										Total: 450		
Date	Trucked to DW			Natural passed			Trap Morts			Surplus To NPT		
	ADULT	JACK	T	ADULT	JACK	T	ADULT	JACK	T	ADULT	JACK	T
6/1/2009	12	0	12			0			0			0
6/15/2009	60	39	99	1		1			0			0
6/22/2009	29	24	53			0			0			0
6/29/2009	57	49	106	1	1	2			0			0
7/2/2009	59		59			0			0		15	15
7/6/2009	87	16	103			0			0			0
Total:	304	128	432	2	1	3	0	0	0	0	15	15

Kooskia Brood Year 2008

Kooskia Stock BY 2008 SCS number 646,681 averaging 110.8 fpp at 3.11 inches long. Growth for the month was .37 inches. Kooskia stock SCS remain in the BP's on reuse with chilled well water makeup. The reuse water temperature averaged 48.6°F this month.

Idaho Fish Health Center health exams were conducted June 5th, 15th, and 30th to monitor *Ichthyophthirius multifiliis* (ICH). Weekly formalin treatments (12 hrs @ 50ppm) were administered to the entire system June 9th, 16th, and 23rd. Only one ICH was found during June 30th exam so formalin treatments were reduced to every other week. Fish appear to be in good overall health.

Rainbow Trout Brood Year 2008

The leftover Rainbow Trout from Open House and Kids' Fishing Day will be outplanted to Worley, ID (Coeur d' Alene Tribe) on July 8, 2009.

Maintenance

Dworshak

- Cleaned System I, II & 3 reuse digesters and refit diffuser in reuse digester #2 in System I.
- Electrical projects: Assisted U.S. Army Corps of Engineers (USACE) on contractors with location of pipes and electric conduit; connected power to contractor job trailer at Mech I; calibrated and adjusted heat exchangers heat valves in Mech II; changed ballast in stairwell in Main Bldg; replaced diaphragm in CLA-valve in Mech I incubator sump level control and changed sump pump in System I digester Bldg.
- Fabrication Projects: New dam boards for A & B bank RW's; four irrigation pipe storage stands; irrigation pipe for pumping fish from Nursery to ponds; new stand pipes and pack columns for Coho.
- Set up tables and tents for Open House at Tunnel Pond.
- Repaired irrigation plumbing in House #1 and leveled top soil.
- Removed bird netting for S & S Construction Co.

- Hauled SCS from KNFH to DNFH; pumped RBT for ponds and KNFH Open House.
- Hauled old scrap to COE bone yard.
- Checked traveling water screens and cleaned moss from trap at Main Pumphouse daily; grounds and building maintenance daily.

Kooskia

- Started up lawn irrigation system.
- Surveyors conducted site survey at the South end of the hatchery property in preparation for new hatchery quarters construction, June 2-4, 2009.
- The Obermeyer weir was raised. Sluicing of creek bed load appears successful.
- Pat Baird with the NPT Cultural Resources Department conducted survey for cultural resources in the new quarters project area 6/24-26/09.

Meetings/Training/Travel

Dworshak

- 6/1 Contractor CH2MHill, Damian Walter-Walla Walla District Corps visited the hatchery to better their understanding of the operation of the facility relative to water supply, water usage, and discharge as they relate to the Environmental Protection Agency regulations.
- 6/2-3 Larry Peltz, Complex Manager and Howard Burge, FRO Project Leader traveled to LaGrande, OR for an Endangered Species Conference.
- 6/18 Tim Dykstra-Walla Walla District visited to discuss improving access to tribal fishing grounds for tribal members and to discuss Total Dissolved Gas issues in the North Fork Clearwater River and potential solutions for these impacts at the hatchery.
- 6/22-24: Ray Brunson, Abernathy Fish Health Center conducted a Fish Health Course in the Main Bldg. Conference Room. Gia GrowingThunder, Rob Bohn, Rick Allain, Animal Caretakers and Mark Bright, Fisheries Biologist attended the course along with staff from several other State, Federal and Tribal hatcheries from Idaho, Washington and Oregon.

Kooskia

- 6/1-5 Adam Izbicki attended Contracting Officer Technical Representative (COTR) training at the regional office.

Miscellaneous

- 6/30 A birthday party for employees born in the month of June was hosted in the Main Bldg. Conf. Room by Maintenance Dpt. with cake, ice cream and watermelon being served.

Personnel Actions –

- 6/8 Clearwater River Youth Program started with Sadie Gregg, Janae Gunn,

and Erin Dozlier at Dworshak NFH and Megan Phillips and Jesse Zick at Clearwater Fish Hatchery for a 6-week work program.

Safety/Wellness –

- 6/3 Federal Occupational Health had a portable audiogram testing site set up at DNFH to test the following employees: Mark Bright, John Vargas, Thomas Trock, Rick Allain, Wayne Hamilton, Ben Wright, Rob Keller, Mike Bisbee, LouAnn Lasswell, Eric Kashkash, Mark Drobish, Steve Coomer, Hubert Sims, Rick King, Terry Weeks, Dave Trainor, Ben Greene and Gerald Stretsbery.
- 6/2 & 4 Two staff safety meetings to allow full employee participation presented by Safety Committee to view the video presentation on accident and Safety precautions, “*Remember Charlie.*”

Information/Education (I/E)

Dworshak

Tours - 5

People - 42

Register – 277 from 21 states (top 3: WA-28, CA-13, KS-12) and 2 countries (Canada-6 & Peru-1)

Visitor Contacts – 65

Volunteers – 11 **Hours** – 60

Website Visitors – data not available

On-site:

- Attended monthly Idaho Environmental Education Association board conference call.
- Attended first Northwest Environmental Education Collaborative conference call.
- Provided information and resources to a representative of the U.S. Forest Service for campground programs related to fisheries.

Off-site:

- Facilitated release of Hatchery in the Classroom fish for 2 schools (Colton and Clearwater Valley) for 45 students total
- Planned and conducted annual Kids’ Fishing Day at Tunnel Pond, where 156 kids fished and approximately 400 total people attended.
- Planned and conducted Veterans’ Fishing Day at Tunnel Pond for 10 Veterans and 7 other disabled adults.
- Met with teachers from McSorley Elementary in Lewiston to plan steelhead project activities for the 09-10 school year.

Kooskia

No visitors signed the guest book. No guided tours, but many visitors stopping to check the trap, see the big fish, and take a look around the hatchery grounds.

Website contacts: (data not available)

On-site:

- Planned and conducted annual Open House and Kids' Fishing Day where 155 kids fished and approximately 400 total people attended.

A handwritten signature in black ink, appearing to read "Larry Peltz". The signature is written in a cursive, flowing style.

Larry Peltz

Complex Manager

cc: Kooskia NFH
Hagerman NFH
CFRU – Moscow
Dworshak Production (2)
LSRCP – Boise